

HISTORIC AMERICAN ENGINEERING RECORD

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HAER
ORE,
25-BONY,
2-F

Bonneville Project, Bonneville Dam
Columbia River
Bonneville
Multnomah County
Oregon

HAER No. OR-11-F

Bob Heims, Photographer September 1987

- OR-11-F-1 GENERAL EXTERIOR VIEW LOOKING SOUTHEAST AT DOWNSTREAM FACE OF DAM/SPILLWAY. VIEW TAKEN FROM WASHINGTON SHORELINE.
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WASHINGTON SHORE ADJACENT TO UPSTREAM FACE OF THE DAM/SPILLWAY.

Photograph Nos. OR-11-F-27 through OR-11-F-94 are photocopies of
photographs. Original historic photographs are located at the
Bonneville Powerhouse, Bonneville, Oregon.

OR-11-F-27 photographer unknown undated
DREDGING OVERBURDEN FROM CRIB EXCAVATION AREAS IN MAIN CHANNEL
FOR FIRST STEP COFFERDAM. BRADFORD ISLAND IN BACKGROUND.

OR-11-F-28 photographer unknown undated
SIDE VIEW OF PARTIALLY CONSTRUCTED CRIB NO. 13. NOTE CONTOURING
TO FIT IRREGULARITIES OF RIVER BOTTOM.

OR-11-F-29 photographer unknown undated
PARTIALLY CONSTRUCTED CRIB NO. 13 JUST PRIOR TO LAUNCHING.

OR-11-F-30 photographer unknown undated
MONIGHAN DRAGLINE LOADING 25-YARD DUMP BUGGIES.

OR-11-F-31 photographer unknown undated
CRIB NO. 13 RESTING ON RIVER BOTTOM AFTER BEING FLOATED INTO
POSITION.

OR-11-F-32 photographer unknown undated
PARTIALLY CONSTRUCTED CRIB NO. 11 ON WAYS JUST PRIOR TO
LAUNCHING. CRIB SHOWS WET SIDE SHEATHING, BLOCKING, FILLER
BLOCKS, AND VERTICALS.

OR-11-F-33 photographer unknown undated
CRIB NO. 1 RESTING ON RIVER BOTTOM AFTER BEING FLOATED INTO
POSITION.

OR-11-F-34 photographer unknown undated
PARTIALLY CONSTRUCTED CRIB NO. 9. NOTE CONTOURING TO FIT
IRREGULARITIES OF RIVER BOTTOM.

OR-11-F-35 photographer unknown undated
PLACING CRIBS FOR SOUTH END OF FIRST STEP COFFERDAM.

OR-11-F-36 photographer unknown undated
SOUNDING BARGE IDLE WHILE CRIB SINKING UNDERWAY.

OR-11-F-37,38 photographer unknown undated
VIEW OF SOUTH COFFERDAM LOOKING TOWARD BRADFORD ISLAND. CRIB
UNDER CONSTRUCTION ON WAYS IN RIVER AWAITING PLACEMENT.
STEEL SHEET PILES DRIVEN ALONG RIGHT FACE OF COFFERDAM.

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- OR-11-F-39,40,41 photographer unknown undated
ALL CRIBS PLACED AND SUNK IN UPSTREAM LEG OF FIRST
COFFERDAM. TRUCKS CARRYING CRIB FILL. ONE DOWNSTREAM CRIB
BEING ERECTED IN WAYS.
- OR-11-F-42 photographer unknown 15 February 1935
MOVING 441 TON MONIGHAN ELECTRIC DRAGLINE.
- OR-11-F-43 photographer unknown 7 March 1935
DRIVING OF SHEET STEEL PILING AROUND THE OUTER FACE OF THE DAM.
- OR-11-F-44 photographer unknown 3 April 1935
JACKHAMMERS DRILLING BOULDERS INSIDE FIRST STEP COFFERDAM.
- OR-11-F-45 photographer unknown 26 June 1935
MODEL OF SOUTH HALF OF MAIN SPILLWAY DAM, LOOKING UPSTREAM WITH
CRIBS IN PLACE.
- OR-11-F-46 photographer unknown 26 June 1935
MODEL OF SOUTH HALF MAIN SPILLWAY DAM, LOOKING DOWNSTREAM WITH
CENTER CRIBS REMOVED.
- OR-11-F-47 photographer unknown 26 June 1935
MODEL OF SOUTH HALF OF MAIN SPILLWAY DAM, LOOKING DOWNSTREAM WITH
CRIBS IN PLACE.
- OR-11-F-48 photographer unknown 27 August 1935
DEWATERING OF SOUTH HALF OF MAIN DAM BEGUN.
- OR-11-F-49 photographer unknown 10 September 1935
EXCAVATION WITHIN COFFERDAM FOR SOUTH HALF OF MAIN DAM.
- OR-11-F-50 photographer unknown 16 September 1935
PLACING FIRST CONCRETE IN MAIN DAM USING "CROWE" BUCKET.
- OR-11-F-51 photographer unknown 1 October 1935
CURING SPRAYS FOR CONCRETE IN SOUTH HALF OF MAIN DAM.
- OR-11-F-52 photographer unknown 9 October 1935
CURING CONCRETE BLOCKS FOR BASE OF SOUTH HALF OF SPILLWAY DAM.
INSPECTION TUNNEL FORM IN BACKGROUND.
- OR-11-F-53 photographer unknown October 1935
WORK ON SOUTH HALF SPILLWAY SHOWING REINFORCING STEEL AND PLACING
CONCRETE. COFFERDAM IN BACKGROUND.
- OR-11-F-54 photographer unknown October 1935
RAIN PROTECTION COVER PANELS.
- OR-11-F-55 photographer unknown 14 October 1935
REINFORCING STEEL OF BAFFLES ON SPILLWAY DECK.

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- OR-11-F-56 photographer unknown 14 October 1935
CONCRETE BLOCKS OF SOUTH HALF OF SPILLWAY SHOWING STEEL
REINFORCING OF BAFFLES.
- OR-11-F-57 photographer unknown 30 October 1935
PIERS RISING FROM CONCRETE DECK. BAFFLES IN VARIOUS STAGES OF
CONSTRUCTION.
- OR-11-F-58 photographer unknown 30 October 1935
CONSTRUCTION OF CONCRETE BLOCKS OF SOUTH HALF OF MAIN DAM.
- OR-11-F-59 photographer unknown 30 October 1935
PLACING AND FINISHING CONCRETE FOR SPILLWAY APRON.
- OR-11-F-60 photographer unknown 31 October 1935
PLACING AND FINISHING CONCRETE FOR SPILLWAY APRON.
- OR-11-F-61 photographer unknown November 1935
STEEL REINFORCING FOR APRON, SOUTH HALF OF MAIN DAM. OUTLINE OF
SPILLWAY PAINTED ON INSIDE OF COFFERDAM.
- OR-11-F-62 photographer unknown 20 November 1935
POURING CONCRETE, BLOCK 9-C, SOUTH HALF OF MAIN DAM.
- OR-11-F-63 photographer unknown 21 November 1935
BAFFLES AND PIERS FOR SOUTH HALF OF MAIN DAM IN VARIOUS STAGES OF
CONSTRUCTION.
- OR-11-F-64 photographer unknown 5 December 1935
CUT TIMBERS TO FIT BEDROCK FOR BULKHEAD CRIBS FOR NORTH HALF
COFFERDAM.
- OR-11-F-65 photographer unknown 5 December 1935
NOSE OF PIER NO. 10, SOUTH HALF OF MAIN DAM.
- OR-11-F-66 photographer unknown 26 December 1935
LAYING TIMBERS AFTER PART OF CRIBFILL PLACED IN THE DOWNSTREAM
TIMBER BULKHEAD FOR SECOND STEP COFFERDAM.
- OR-11-F-67 photographer unknown undated
CRIB IN PLACE IN SECOND STEP COFFERDAM AND POCKETS BEING FILLED.
- OR-11-F-68 photographer unknown 15 January 1936
DOWNSTREAM SIDE OF SOUTH HALF OF MAIN DAM. COFFERDAM AND RIVER
IN BACKGROUND.
- OR-11-F-69 photographer unknown January 1936
CRIB IN PLACE IN SECOND STEP COFFERDAM AND POCKETS BEING FILLED.
- OR-11-F-70 R.W. Oliver 28 January 1936
SOUTH HALF OF MAIN DAM. MONICHAN IN FOREGROUND, COFFERDAM AND
RIVER IN BACKGROUND.

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- OR-11-F-71 photographer unknown 31 January 1936
DOWNSTREAM TIMBER BULKHEAD CRIBS FOR SECOND STEP COFFERDAM
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- OR-11-F-72 photographer unknown 31 January 1936
CONSTRUCTION OF DOWNSTREAM BULKHEAD CRIBS FOR SECOND STEP
COFFERDAM ADJOINING PIER NO. 9.
- OR-11-F-73 photographer unknown 8 February 1936
BUCKET LOADING DOCK FOR CONCRETE.
- OR-11-F-74 photographer unknown 10 February 1936
DOWNSTREAM SIDE OF SOUTH HALF OF MAIN DAM. BRADFORD ISLAND IN
BACKGROUND.
- OR-11-F-75 photographer unknown undated
UPSTREAM SIDE OF PIERS, SOUTH HALF OF MAIN DAM.
- OR-11-F-76 photographer unknown undated
STRUCTURAL STEEL TRUSSES FOR DOWNSTREAM THIRD STEP COFFERDAM IN
PLACE. TWO PADS FOR THIS COFFERDAM ARE LAYING ON THE BAFFLES TO
THE LEFT OF THE TRUSSES.
- OR-11-F-77 photographer unknown 10 March 1936
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ADJOINING PIER NO. 9.
- OR-11-F-78 photographer unknown March 1936
CRIB IN PLACE IN SECOND STEP COFFERDAM. BULKHEAD AND FIRST STEP
COFFERDAM IN BACKGROUND.
- OR-11-F-79 photographer unknown 13 March 1936
AERIAL VIEW OF THE SPILLWAY DAM JUST BEFORE FLOODING THE FIRST
STEP COFFERDAM. TWO CRIBS IN PLACE ON WASHINGTON SHORE FOR EACH
LEG OF THE SECOND STEP COFFERDAM. CRIBWAYS NEAR UPSTREAM LEG.
- OR-11-F-80 photographer unknown 16 March 1936
BLASTING OF UPSTREAM CRIBS OF FIRST STEP COFFERDAM.
- OR-11-F-81 photographer unknown 16 March 1936
IMMEDIATELY AFTER BLAST TO REMOVE FIRST STEP COFFERDAM.
- OR-11-F-82 photographer unknown undated
CRIB BEING TOWED INTO PLACE FOR SECOND STEP COFFERDAM.
- OR-11-F-83 R.W. Oliver 8 April 1936
UPSTREAM SIDE OF PIERS, SOUTH HALF OF MAIN DAM. PLACEMENT OF
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- OR-11-F-84 photographer unknown 10 April 1936
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- OR-11-F-85 photographer unknown 25 April 1936
VIEW OF DOWNSTREAM SIDE OF UNFINISHED PIERS IN SOUTH HALF OF
SPILLWAY.
- OR-11-F-86 photographer unknown 29 April 1936
PANORAMA SHOWING SOUTH HALF OF UNFINISHED SPILLWAY AND HIGHWATER
OVERTOPPING SECOND STEP COFFERDAM.
- OR-11-F-87 R.W. Oliver 1 January 1937
NORTH HALF OF MAIN SPILLWAY DAM UNDER CONSTRUCTION.
- OR-11-F-88 photographer unknown undated
DOWNSTREAM VIEW OF CONSTRUCTION ON NORTH HALF OF MAIN DAM,
COFFERDAM IN BACKGROUND.
- OR-11-F-89 photographer unknown 5 January 1937
DOWNSTREAM SIDE OF PIER NOS. 7, 8, AND 9.
- OR-11-F-90 photographer unknown 1 May 1937
CONSTRUCTION OF WASHINGTON SHORE FISH LADDER AT DOWNSTREAM END OF
DAM.
- OR-11-F-91 photographer unknown undated
TOP OF SPILLWAY DAM PIERS WITH ASSEMBLY OF DAM GATES UNDERWAY.
WASHINGTON SHORE WING WALL IN BACKGROUND.
- OR-11-F-92 photographer unknown 24 February 1938
WASHINGTON SHORE FISH LADDER IN OPERATION.
- OR-11-F-93 photographer unknown 29 May 1940
UPSTREAM SIDE OF SPILLWAY DAM.
- OR-11-F-94 photographer unknown 29 May 1945
FISH COUNTER RECORDING FISH PASSING THROUGH LADDERS AT BONNEVILLE
DAM.
- OR-11-F-95 Photocopy of original construction drawing, date unknown.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (T-2-29)
FISHWAYS BRADFORD ISLAND.
- OR-11-F-96 Photocopy of original construction drawing, dated 28 June 1933.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (T-1-18)
FISH LADDERS HOISTS AND PICK UP SYSTEMS.
- OR-11-F-97 Photocopy of original construction drawing, dated 25 May 1937.
(Original print in the possession of U.S. Army Corps of
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SPILLWAY DAM SECTIONS THROUGH DAM SHOWING OUTLINE OF STRUCTURE AS
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- OR-11-F-98 Photocopy of original construction drawing, dated 15 July 1936.
(Original print in the possession of U.S. Army Corps of
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SPILLWAY DAM ELEVATION OF STRUCTURE 215 FT. DOWNSTREAM AND PLAN
OF FOUNDATIONS.
- OR-11-F-99 Photocopy of original construction drawing, dated 15 July 1936.
(Original print in the possession of U.S. Army Corps of
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SPILLWAY DAM SECTION 17 FT. DOWNSTREAM FROM AXIS OF DAM - SOUTH
LIMIT S.P. & S. RY. R/W LINE TO PIER NO. 4.
- OR-11-F-100 Photocopy of original construction drawing, dated 15 July 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
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PLAN OF DAM AT ELEVATION +24 - FISHLOCKS AND ABUTMENT NO. 1 TO
PIER NO. 4.
- OR-11-F-101 Photocopy of original construction drawing, 15 June 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-22,
Sheet No. 4)
SPILLWAY DAM CONTROL HOUSE WASHINGTON SHORE CROSS SECTIONS AND
DETAILS.
- OR-11-F-102 Photocopy of original construction drawing, 15 June 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-22,
Sheet No. 1)
SPILLWAY DAM GENERAL ARRANGEMENT OF CONTROL HOUSE WASHINGTON
SHORE.
- OR-11-F-103 Photocopy of original construction drawing, 10 June 1936.
(Original print in the possession of U.S. Army Corps of
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SPILLWAY DAM ISOMETRIC VIEW OF TYPICAL PIER SECTION ELEVATION +68
TO TOP OF PIER.
- OR-11-F-104 Photocopy of original construction drawing, 10 June 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-4-39,
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SPILLWAY DAM - CLEARANCES - GANTRY CRANE, GATES AND STABILIZER
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- OR-11-F-105 Photocopy of original construction drawing, 25 May 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-17,
Sheet No. 4)
SPILLWAY DAM CONTROL HOUSE - BRADFORD SHORE SECTIONS AND
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- OR-11-F-106 Photocopy of original construction drawing, 1 May 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-17,
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SPILLWAY DAM SOUTH APPROACH AND CONTROL HOUSES.
- OR-11-F-107 Photocopy of original construction drawing, 10 April 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-4-33,
Sheet No. 33)
SPILLWAY DAM GANTRY CRANE LIFTING BEAM GATE LIFTING MECHANISM
ASSEMBLY.
- OR-11-F-108 Photocopy of original construction drawing, 9 April 1936.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 50)
SPILLWAY DAM ISOMETRIC VIEW OF TYPICAL PIER SECTION ELEVATION +69
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- OR-11-F-109 Photocopy of original construction drawing, 5 November 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
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SPILLWAY DAM GENERAL PLAN.
- OR-11-F-110 Photocopy of original construction drawing, 30 October 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (T-3-107,
Sheet No. 2)
SPILLWAY DAM BRADFORD ISLAND LADDER AND ENTRANCE BAY PLAN AND
ELEVATION SECTION 25 AND 26.
- OR-11-F-111 Photocopy of original construction drawing, 29 October 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 8)
BRADFORD ISLAND ABUTMENT AND FISHWAY STRUCTURES.
- OR-11-F-112 Photocopy of original construction drawing, 1 October 1936.
(Original print in the possession of U.S. Army Corps of
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- OR-11-F-113 Photocopy of original construction drawing, 16 September 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-8,
Sheet No. 23)
SPILLWAY DAM BRADFORD ISLAND FISH LADDER SECTION 27 GENERAL PLAN
AND SHORE ELEVATION.
- OR-11-F-114 Photocopy of original construction drawing, 14 August 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-8,
Sheet No. 14)
SPILLWAY DAM FISHWAY ENTRANCE BAY DIFFUSION CHAMBER BEAM DETAILS.
- OR-11-F-115 Photocopy of original construction drawing, 25 July 1935.
(Original print in the possession of U.S. Army Corps of Engineers, Portland
District, Portland, OR.) (M-5-8, Sheet No. 9)
SPILLWAY DAM FISHWAY AND ENTRANCE BAY GENERAL PLAN.
- OR-11-F-116 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 14)
SPILLWAY DAM REINFORCING STEEL DETAILS.
- OR-11-F-117 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 13)
SPILLWAY DAM PIERS 2 TO 9 INCL. AND NORTH SIDE PIER 10
REINFORCING STEEL.
- OR-11-F-118 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 12)
SPILLWAY DAM PIERS 11 TO 16 INCL. AND SOUTH SIDE PIER 10
REINFORCING STEEL.
- OR-11-F-119 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 11)
SPILLWAY DAM SECTION THRU DAM FIRST STEP CONSTRUCTION.
- OR-11-F-120 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
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SPILLWAY DAM PLAN OF DAM PIERS 5 TO 10 AT ELEVATION +24 PIERS 10
TO 12 INCL. AT ELEVATION -5.

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- OR-11-F-121 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
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Sheet No. 5)
SPILLWAY DAM SECTION 17 FEET DOWNSTREAM FROM AXIS OF DAM - FROM
PIER 13 TO ABUTMENT 2.
- OR-11-F-122 Photocopy of original construction drawing, 29 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
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SPILLWAY DAM PLAN OF DAM FROM PIER 13 TO ABUTMENT 2 SHOWN AT
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- OR-11-F-123 Photocopy of original construction drawing, 22 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 6)
SPILLWAY DAM SECTION 17 FEET DOWNSTREAM FROM AXIS OF DAM - FROM
PIERS NO. 5 TO 12.
- OR-11-F-124 Photocopy of original construction drawing, 18 May 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 10)
SPILLWAY DAM SECTION THRU DAM BASE AT ELEV. -36 CREST AT
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- OR-11-F-125 Photocopy of original construction drawing, 30 April 1935.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-5-12,
Sheet No. 9)
SPILLWAY DAM PLAN OF SUPERSTRUCTURE SHOWING DECK.
- OR-11-F-126 Photocopy of original construction drawing, 15 April 1935.
(Original print in the possession of U.S. Army Corps of
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Sheet No. 14)
SPILLWAY DAM GANTRY CRANES GENERAL ASSEMBLY CLEARANCE AND LOADING
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- OR-11-F-127 Photocopy of original construction drawing, 20 March 1935.
(Original print in the possession of U.S. Army Corps of
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SPILLWAY DAM ELEVATIONS OF GANTRY FRAME DESIGN DETAILS.
- OR-11-F-128 Photocopy of original construction drawing, 22 August 1934.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (T-2-30)
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OR-11-F-129 Photocopy of original construction drawing, 30 April 1934.
(Original print in the possession of U.S. Army Corps of
Engineers, Portland District, Portland, OR.) (M-1-21,
Sheet 8 of 16)
SPILLWAY DAM TYPICAL PIER DETAILS.

NOTE: For written historical and descriptive data, please see the Bonneville
Project main entry, HAER No. OR-11.